



23rd International Bhurban Conference on Applied Sciences & Technology

Technical Program

ADVANCED MATERIALS

Initial Program Dated: 29-07-2026

Overview

Date/Day						1300-1530				Tech Session-I 1545-1830								
Day-1 August 17, 2026 Monday						Registration, Room Allocation, Lunch				Dr. Israrullah Univ of Malta, Malta	AM-347	AM-147	AM-475	AM-468	AM-575			
	Tech Session-II 0900-1030			1030-1050 Tea Break	Tech Session-III 1050-1230			1230-1330 Lunch Break	1330-1400 Prayer Time	Tech Session-IV 1400-1530			1530-1545 Tea Break	Tech Session-V 1545-1715				
Day 2 August 18, 2026 Tuesday	Invited Talk Prof Dr. Umair Manzoor NUST	AM-84	AM-426		AM-524	Invited Talk Prof. Dr. M. Imran Khan GIKI	Plenary Talk-I Prof. Dr. Ahmed Wagih KAUST, KSA			Plenary Talk – II Prof. Dr. Orkin Hasekioglu TUBITAK, Turkiye	Plenary Talk – III Prof. Dr. Lida Shen, NUAA , China							
	Tech Session-VI 0900-1030				Tech Session-VII 1050-1230					Tech Session-VIII 1400-1530				Tech Session-IX 1545-1730				
Day-3 August 19, 2026 Wednesday	Prof. Dr. Kai Zhu HEU, China	AM-424	AM-610		Prof. Dr. Xu Long NPU, China	AM-505 AM-510 AM-526	AM-139			AM-598	AM-51	AM-565		AM-73	AM-265	AM-609	AM-587	
Day-4 August 20, 2026 Thursday	Tech Session-X 0900 onwards																	
	0930-1100 Work Shop Prof. Dr. Kai Zhu					Sessions End												



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Day-1: August 17, 2026

1300-1530	Registration, Room Allocation, Lunch			
1545-1830 Session Chair: Prof. Dr. Kai Zhu HEU, China	1545-1635 Invited Talk	Electrical Resistivity and Water Impermeability SiR Insulation Coatings under Prolonged DC Stress		Dr. Israrullah Univ. of Malta, Msida
	1640-1700	AM-347	Material Testing System-based Comparative Mechanical Analysis of Different Materials Used for 3D Printed Wearable EMG Brace	Alina Akhlaq Air Univ, Islamabad
	1700-1720	AM-147	Cyclic Elastocaloric Performance of Ni ₅₁ Fe ₁₇ Ga _{28.5} Co _{3.5} Shape Memory Alloys under Mechanical Cycling	Danyal Siddiqi HaroBanx Industries Khan Pur
	1720-1740	AM-475	Bifunctional CAU-17/BiFeO ₃ Hybrid Catalyst for Sustainable Dye Degradation and Oxygen Evolution	Dr. Aziz ur Rehman, IUB, Bahawalpur
	1740-1800	AM-468	Hyperthermal environmental response of Kevlar fiber reinforced elastomers: Application of re-entry and propulsion modules	Ayesha Siddiqi, Univ of Lhr, Lahore
	1800-1820	AM-575	Investigation of Structure–Property Relationships in PANI/CNTs@Fe ₃ O ₄ Nanocomposites for EMI Shielding Applications	Shahzad Hussain COMSATS, Islamabad



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Day 2: August 18, 2026

0900-0950 Session Chair Prof. Dr. Xu Long NPU, China	0900-0940 Invited Talk	Device Making Technique and Advance Applications (Piezoelectric, Piezo-phototronic, and UV Sensing) of Single Ultra Long Nanobelt		Prof. Dr. Umair Manzoor NUST, Islamabad
	0940-1000	AM-84	A Comparative Experimental Study of Stability and Thermophysical Properties of rGO and Al ₂ O ₃ /Water Nanofluids for Heat Transfer	Nusrat Jabeen NUST, Islamabad
	1000-1020	AM-426	Computational Pre-Synthesis Validation of a Disulfide-Epoxy/PDMS Self-Healing Composite for Space Structures	Shoaib ur Rehman NUST
	1020-1040	AM-524	Taguchi Analysis of 316L Stainless Steel Coating using Hydroxyapatite-Suspended EDM Process	Iqtadar Ahmed, UTP, Malaysia
1040-1050		Tea Break		
1050-1230 Session Chair Prof. Dr. Orkun TUBITAK, Turkey	1050-1140	Advanced Materials Characterization: From Fundamentals to Frontiers		Prof. Dr. Imran Khan GIKI, TOPI
	1140-1230 Plenary Talk	Thin-ply thermoplastic composites: A path towards durable type V hydrogen storage tanks for aerostructures.		Prof. Dr. Ahmed Wagih, KAUST, KSA
1230-1330		Lunch		
1330-1400		Prayer Time		
1400-1715 Session Chair Prof. Dr. Ahmed Wagih KAUST, KSA	1400-1530 Plenary Talk	Advanced materials in additive manufacturing & structural health monitoring (SHM)		Prof. Dr. Orkun Hasekioglu TUBITAK, Türkiye
	1530-1550	Tea Break		
	1550-1715 Plenary Talk	Jet Electrodeposition: Fundamental research and Aerospace Surface Applications		Prof. Dr. Lida Shen NUAA, China



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Day 3: August 19, 2026

0900-1030 Session Chair Prof. Dr. Kai Zhu HEU, China	0900-0950 Invited talk	Developing high performance polyanionic compounds for cathodes and engineered biomass-derived hard carbon structures for anodes.		Prof. Dr. Kai Zhu HEU, China
	0950-1010	AM-424	A Machine Learning Approach to Feature Engineering and Optimization of Thermoelectric Materials	Sana Ullah UET, Peshwar
	1010-1030	AM-610	Computational Investigation of Aging in HTPB-Based Solid Rocket Propellants Using Bond Dissociation Energy and Blending Analysis	Safwara Siddiq NUST
1030-1050		Tea Break		
1050-1230 Session Chair Prof. Dr. Orkun TUBITAK, Turkey	1050-1140 Invited Talk	Microscale finite element prediction of thermal conductivity in fiber reinforced composites for heat dissipation in electronic packaging		Prof. Dr. Xu Long NPU, China
	1140-1200	AM-505	Tensile and Charpy Impact Characterization of Carbon/Kevlar/Glass Hybrid Polymer Composites Fabricated via Vacuum-Assisted Resin Transfer Molding	Hamza Nisa GIK, Topi
	1200-1220	AM-510	Formulation Tailoring of PAN Polymer by Computational Methods to Optimize the Process Parameters.	Faiqa Yasmin QAU, Islamabad
	1220-1240	AM-526	Comparative Study of Hydrogenation Behavior and Structural Properties of Metal Coatings on Al ₂ O ₃ /AlO ₃ Granular Substrates for Solid-State Hydrogen Storage.	Zulfiqar Khalil Lithuania Energy Institute
1230-1330		Lunch		
1330-1400		Prayer Time		



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1400-1530 Session Chair Dr. Zafar Zaman	1400-1420	AM-139	Development of Innovative Composite Material for Effective and Sustainable Immobilization of Incinerated Radioactive Waste	Mirza Oun Ul Haq Tahir PIEAS, Islamabad
	1420-1440	AM-598	Enhanced Lithium Storage in ZnV ₂ O ₄ Anodes via Optimal Carbon Nanotube Integration	Amna Safdar NCP, Islamabad
	1440-1500	AM-51	Enhancement of Oxidation Resistance & Mechanical Properties of Graphite for Aerospace Applications	Jawad Hassan IST, Islamabad
	1500-1530	AM-565	Synthesis of Rare Earth (Er) Doped SrTiO ₃ Ceramics for High Voltage Ceramic Capacitors	Muhammad Ali PIEAS, Islamabad
1530-1545 Tea Break				
1545-1730 Session Chair Dr. Naveed Ahmed Siddiqi	1550-1610	AM-73	A Comparative analysis of PAN precursor fibers laboratory-made dual steam stretching vs. commercial source	Sattar Ullah CESAT, Islamabad
	1610-1630	AM-265	Computational Pre-Synthesis Validation of a Disulfide-Epoxy/PDMS Self-Healing Composite for Space Structures	Waleed Aslam SUPARCO, Islamabad
	1630-1650	AM-609	Carbonization Process Effectiveness in Making High Strength and Modulus Carbon Fiber	Muhammad Hamid CESAT
	1650-1710	AM-587	Inner Jet Electrodeposition: An Innovative Technique to Deposit Ni-P Coatings on Internal Surfaces of Steel Pipes	Khuram Shahzad CESAT



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Day 4: August 20, 2026

Tech Session	0930-1100	Issues of silver zinc or thermal batteries & molecular level additives in batteries.	Prof. Dr. Kai Zhu HEU, CHINA
Workshop			
Session Ends	1200		